

STATE OF CALIFORNIA
The Resources Agency

Department of Water Resources
BULLETIN No. 132-76

The California
State Water Project
In 1976

APPENDIX D

COSTS OF RECREATION AND FISH AND WILDLIFE ENHANCEMENT

APRIL 1976

CLAIRE T. DEDRICK
Secretary for Resources
The Resources Agency

EDMUND G. BROWN JR.

Governor

State of California

RONALD B. ROBIE

Director

Department of Water Resources

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Copies of this bulletin are available without charge from:

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Department of Water Resources

P. O. Box 388

Sacramento, California 95802

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FOREWORD

The Davis-Dolwig Act (Sections 11900-11925 of the California Water Code) declares that recreation and fish and wildlife enhancement costs of state water projects benefit all of the people of California and are to be borne by them. The Act also provides a procedure through which the Department of Water Resources will be reimbursed for those recreation and fish and wildlife enhancement expenditures that are financed by project funds. The Department is to annually report such expenditures to the Legislature. If the Legislature approves the reported costs, a like amount of the State's tideland gas and oil revenues will be released to the Department from a continuing \$5,000,000 annual appropriation of tideland revenues which has been authorized specifically for that purpose (Public Resources Code Section 6217).

This constitutes the Department's 1976 report to the Legislature in compliance with the above requirement. An additional \$1,133,276 for recreation and fish and wildlife enhancement is reported herein. This amount consists of \$331,498 for joint costs of the State Water Project and \$801,778 for specific land for recreation. The additional amount is mostly due to costs incurred in 1975 and interest accrued during 1975 on recreation costs not yet reimbursed by the continuing annual appropriation. The Department requests that the additional amount be approved.

Ronald B. Robie, Director Department of Water Resources The Resources Agency State of California

State of California EDMUND G. BROWN JR., Governor

The Resources Agency CLAIRE T. DEDRICK, Secretary for Resources

Department of Water Resources RONALD B. ROBIE, Director

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and
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REPORTING OF RECREATION AND FISH AND WILDLIFE ENHANCEMENT COSTS

Section 11912 of the California Water Code assigns to the Department of Water Resources the following responsibilities:

It shall be the duty of the Department to report annually to the Legislature the costs, if any, which the department has allocated to recreation and fish and wildlife enhancement for each facility of any state water project. The department shall also report to the Legislature any revisions which the Department makes in such allocations.

The department shall submit each such cost allocation to the Department of Navigation and Ocean Development, to the Department of Parks and Recreation, and to the Department of Fish and Game. The Department of Navigation and Ocean Development, the Department of Parks and Recreation, and the Department of Fish and Game shall file with the Department of Water Resources their written comments with respect to each such cost allocation, which written comments shall be included in the report required by this section.

It shall also be the duty of the department to report to the Legislature on any expenditure of funds for acquiring rights-of-way, easements and property pursuant to Section 346 for recreation development associated with such facilities....

This appendix constitutes the Department's 1976 report as required by Section 11912.

For brevity, "fish and wildlife enhancement" is hereafter referred to as "enhancement". The Department's cost allocations treat recreation and enhancement as one combined purpose of the State Water Project.

Organization of Report

The costs of State Water Project facilities which the Department has allocated to recreation and enhancement through December 31, 1975, are shown in Table 1, pages 4 and 5, together with expenditures for acquiring rights of way, easements, and property for recreation development associated with such facilities. Table 2, on pages 10 and 11, details the accrued interest charges that are included in the costs shown in Table 1.

The notes to Table 1, on pages 6 through 9, contain an explanation of the Department's procedures for reporting recreation and enhancement costs, a description of how the amounts shown in the Table are calculated, and a reconciliation of significant changes from costs shown in previous reports.

The costs shown in Table 1 do not reflect new or revised allocations for any facility of the State Water Project. The derivation of allocation percentages indicated for joint capital costs of those multipurpose facilities listed in the upper portion of the Table have been described in previous reports. Copies of those descriptions are available on request to the Department.

A summary of allocation percentages is shown on page 12, including illustrative allocation percentages for facilities which have not been reported.

Included on pages 14 through 16, at the end of this report, are comments by the Department of Navigation and Ocean Development, the Department of Parks and Recreation and the Department of Fish and Game.

								(111	
TYPE OF COSTS, PROJECT FACILITY,						DISBURSEMENTS,			
AND SOURCE OF FUNDS	1952- 1962	1963	1964	1965	1966	1967	1968	1969	
JOINT CAPITAL COSTS ALLOCATED TO RECREATION AND ENHANCEMENT: (b						•			
Frenchman Dam and Lake (78.5%) California Water Resources Development Bond Fund All other funds Subtotal	-586 2,329,378 2,328,792	99,674 100,128	4,639 -218 4,421	4,451 -5 4,446	16,918 6 16,924	65,092 0 65,092	2,209 515 2,724	46 1,193 1,239	
Antelope Dam and Lake (100.0%) California Water Resources Development Bond Fund All other funds Subtotal	-803 1,048,088 1,047,285	25,824 2,634,575 2,660,399	490,306 18,831 509,137	259,598 145 259,743	36,676 12 36,688	151,356 2 151,358	18,420 21,504 39,924	9,831 207,412 217,243	
Grizzly Valley Dam and Lake Davis (94.9%) California Water Resources Development Bond Fund All other funds Subtotal	111,446 111,446	20,100 109,547 129,647	484,442 -3,394 481,048	930,749 3,968 934,717	1,700,233 35,862 1,736,095	488,205 12,395 500,600	173,312 13,025 186,337	23,497 157,200 180,697	
California Nater Resources Development Bond Fund All other funds Subtotal	-6,580 339,856 333,276	224,688 936,012 1,160,700	948,431 282,351 1,230,782	1,563,719 -13,809 1,549,910	1,973,879 54,820 2,028,699	1,520,308 25,032 1,545,340	269,071 246,913 515,984	77,209 211,368 288,577	
Oroyille Division (2.9%) California Water Resources Development Bond Fund All other funds Subtotal	99 1,747,554 1,747,653	29,269 1,029,035 1,058,304	1,151,063 -6,214 1,144,849	962,834 36,109 998,943	2,247,395 18,608 2,266,003	1,335,209 37,774 1,372,983	86,993 321,811 408,804	26,289 <u>87,591</u> 113,880	
Del Valle Dam and Lake Del Valle (48.0%) California Water Resources Development Bond Fund All other funds Subtotal	14 371,143 371,157	24,329 225,409 249,738	402,502 -2,542 399,960	738,461 130 738,591	2,923,153 2,760 2,925,913	5,529,695 387,848 5,917,543	839,484 1,060,235 1,899,719	3,894 84,929 88,823	
TOTAL	5,939,609		3,770,197	4,486,350		9,552,916	3,053,492	890,459	
SPECIFIC COSTS OF ACQUIRING LAND FOR RECREATION EVELOPMENT: (c			· · · · · · · · · · · · · · · · · · ·			6.31	4.1		
<u>Frenchman Dam and Lake</u> California Water Resources Development Bond Fund All other funds Subtotal	-154 49,190 49,036	-310 452 142	696 1 697	642	1,504	521 521	162 223 385	28 74 102	
<u>Grizzly Valley Dam and Lake Davis</u> California Water Resources Development Bond Fund All other funds Subtotal	2,377 2,377	519 2,866 3,385	27,998 3 28,001	4,147	19,086	164,798	-13,724 -13,724	324	
Oroville Division California Water Resources Development Bond Fund All other funds Subtotal	-36,295 167,120 130,825	55,339 99,247 154,586	232,053 -24,059 207,994	551,385 -4,549 546,836	1,038,217 -3,928 1,034,289	34,027 -34,911 -884	-1,489 80,622 79,133	-6,886 34,685 27,799	
Del Valle Dam and Lake Del Valle California Water Resources Development Bond Fund All other funds Subtotal	21,867 21,867	791 8,920 9,711	24,212 94 24,306	70,463 -852 69,611	8,581	489,259	-74,659 -51,037 -125,696	-1,490 960 530	
San Luis Dam end Reservoir, O'Neill Forebay and Los Banos Reservoir California Water Resources Development Bond Fund All other funds Subtotal	-19,826 143,024 123,198	16,621 20,051 36,672	-8,649 -4,833 -13,482	57,567 -3,304 54,263	199,226 41,218 240,444	5,164 -1,068 4,096	1,512 2,583 4.095	791 	
California Aqueduct California Water Resources Development Bond Fund All other funds Subtotal	-1,898 84,164 82,266	-24,191 28,203 4,012	16,661 -1,271 15,390	580,372 -614 579,758	13,287 -71 13,216	224,898 -80 224,818	71,036 9,021 80,057	51,035 17,508 68,543	
Castaic Dam and Lake California Water Resources Development Bond Fund All other funds Subtotal	4,401	603 5,278 5,881	29,708 831 30,539	398,203 398,203	492,805	915,110 -75 915,035	-18,073 -30,418 -48,491	-44,600 7,038 -37,562	
Cedar Springs Dam and Silverwood Lake California Water Resources Development Bond Fund All other funds Subtotel	5,265 45,013 50,278	75,267 75,267		18,469	88,949 88,949	64,092	43,780 -79,473 -35,693	32,470 322,524 354,994	
Perris Dam and Lake Perris California Water Resources Development Bond Fund All other funds Subtotal	-18,390 234,997 216,607	424,103	-27,827 -27,827	-25,390 -25,390	-13,883 -13,883	20,994	492,881 3,721,737 4,214,618	-1,942 - <u>317,868</u> -319,810	
Abbey Bridge Dam and Reservoir California Water Resources Development Bond Fund All other funds Subtotal	9,733 9,733	183 183	5	9					
TOTAL	690,588	713,942	265,623	1,646,548	1,884,991	1,882,729	4,154,684	95,783	
TOTAL RECREATION AND ENHANCEMENT COSTS California Water Resources Development Bond Fund	-79,154	873,406	3,776,235	6,115,679	10,746,026	11,008,728	1,890,915	170,496	
All other funds	6,709,351	5,199,452	259,585	17,219	149,287	426,917	5,317,261	815,746	

	BY CALENDA	AR YEAR					TOTAL DISBURSE- MENTS	Add: INTEREST ACCRUALS	TOTAL COSTS REPORTED	COMPARISON WITH COSTS PREVIOUSLY REPORTED	
	1970	1971	1972	1973	1974	1975	THRU 1975	THRU 1975	THRU 1975	THRU 1974	INCREASE
								_			
	1,324 260 1,584	7,199 226 7,425	1,235 1,588 2,823	935 935	1,194 1,194	<u>404</u> 404	102,981 2,435,150 2,538,131	1,804	104,785 2,435,150 2,539,935	104,796 2,434,883 2,539,679	-11 -267 -256
	19,210 5,003 24,213	24,350 3,028 27,378	1,605 2,071 3,676	$\frac{1,342}{1,342}$	1,809 1,809	<u>592</u> 592	1,036,373 3,944,414 4,980,787	98,308	1,134,681 3,944,414 5,079,095	1,134,695 3,944,079 5,078,774	-14
	5,952 62,211 68,163	9,610 738 10,348	1,662 2,595 4,257	24,084 24,084	45,560	78,478 78,478	3,837,762 653,715 4,491,477	400,293	4,238,055 653,715 4,891,770	4,231,008 575,475 4,806,483	7,047 78,240 85,287
	90,010 49,044 139,054	21,842 4,635 26,477	23,296 12,544 35,840	-324 17,704 17,380	-505 26,671 26,166	-254 33,860 33,606	6,704,790 2,227,001 8,931,791	880,787	7,585,577 2,227,001 9,812,578	7,556,467 2,219,710 9,776,177	29,110
÷	7,812 17,838 25,650	7,741 5,312 13,053	4,649 10,668 15,317	-37 23,555 23,518	-42 26,844 26,802	-18 30,148 30,130	5,859,256 3,386,633 9;245,889	1,730,633 1,730,633	7,589,889 3,386,633 10,976,522	7,583,853 3,362,004 10,945,857	6,036 24,629 30,665
	20,653 45,203 65,856	23,849 2,700 26,549	40,249 6,470 46,719	9,197 9,197	115,302 115,302	7,717	10,546,283 2,316,501 12,862,784	4,208,526 4,208,526	14,754,809 2,316,501 17,071,310	14,582,316 2,310,426 16,892,742	172,493 6,075 178,568
	324,520	111,230	108,632	76,456	216,833	150,927	43,050,859	7,320,351	50,371,210	50,039,712	331,498
	182	108 7 115					3,379 49,947 53,326	134	3,513 49,947 53,460	3,513 49,947 53,460	
	625	343					204,116 5,246 209,362	15,082	219,198 5,246 224,444	219,200 5,246 224,446	-2
	4,160 4,927 9,087	10,135 4,437 14,572	-509 3,347 2,838	-29 1,452 1,423	-87 1,204 1,117	-28 -2,167 -2,195	1,879,993 327,427 2,207,420	608,163	2,488,156 327,427 2,815,583	2,488,231 329,334 2,817,565	-75 -1,907 -1,982
	1,629 190 1,819	600 159 759	39 758 797	2,018 2,018	<u>821</u> 821	<u>400</u> 400	519,425 -15,702 503,723	169,692	689,117 -15,702 673,415	689,187 -16,164 673,023	-70
	46,337 -272 46,065	1,977 470 2,447	116,692 -42,537 74,155	19,216 19,216	118 118	<u>243</u> 243	417,412 176,041 593,453	62,255	479,667 176,041 655,708	351,663 171,875 523,538	128,004 4,166 132,170
	475,171 2,981 478,152	-9,714 4,077 -5,637	-160,306 145,743 -14,563	-8,966 44,910 35,944	17,978 17,978	63,686 63,686	1,227,385 416,235 1,643,620	567,600	1,794,985 416,235 2,211,220	1,240,193 327,763 1,567,956	554,792 88,472 643,264
	22,812 1,028 23,840	17,483 7,810 25,293	32,058 23,411 55,469	-104 17,485 17,381	-233 -2,827 -3,060	-93 -64,414 -64,321	1,845,679 98,376 1,944,055	888,689	2,734,368 98,376 2,832,744	2,604,732 32,150 2,636,882	129,636 66,226 195,862
	36,168 27,054 63,222	19,632 -12,301 7,331	24,038 24,328 48,366	12,236 12,236	28,349 28,349	7,674	408,130 <u>375,404</u> 783,534	185,424	593,554 375,404 968,958	580,475 606,500 1,186,975	13,079 - <u>231,096</u> -218,017
	4,195	2,600	-1,300 -1,300	- 130 130	-1,300 -1,300		856,041 3,637,696 4,493,737	443,614	1,299,655 3,637,696 4,937,351	1,249,564. 3,637,696 4,887,260	50,091 50,091
							9,921 9,930		9 9,921 9,930	9 9,921 9,930	
	627,187	47,823	165,762	88,348	44,023	134,129	12,442,160	2,940,653	15,382,813	14,581,035	801,778
	736,240 215,467	137,755 21,298	83,408 190,986	-9,460 174,264	-867 261,723	-393 285,449	35,449,014 20,044,005	10,261,004	45,710,018 20,044,005	44,619,902 20,000,845	1,090,116 43,160
	951,707	159,053	274,394	164,804	260,856	285,056	55,493,019	10,261,004 ^{(d}	65,754,023 ^{(e}	64,620,747 ^{(f}	1,133,276 (8

a) Recreation and enhancement costs herein refer only to those capital costs of multipurpose facilities of the State Water Project that are allocated to recreation and enhancement and/or of lands that are acquired for associated recreation development. These costs are budgeted by the Department of Water Resources from funds that are available to the

Department for financing construction costs of the Project.

The remaining recreation and enhancement costs of types not reported herein are budgeted by several state departments and are financed by appropriations from a variety of funds. These costs and appropriations are summarized below:

<u></u>			
	1	und Appropriat	•
Type of Recreation and Enhancement Costs Not Reported in Table 1	1976-77 ^{(a}	1975-76 ^{(b}	Total 1962-63 thru 1976-77 ^{(c}
Allocated operation, maintenance, and replacement costs of multi-purpose facilities	\$1,780,000	\$1,765,000	\$ 8,757,000
Capital costs of recreation develop- ments other than for land acquisition	\$2,093,000	^d \$3,370,000 ^{(d}	^d \$71,594,000 ^{(e}
Operation, maintenance, and replace- ment costs of recreation develop- ments	\$3,516,000	\$2,750,000	\$12,774,000
a) Proposed amounts in Governor's budget. b) 1975-76 budgeted amount. c) Actual thru 1974-75 plus a) and b d) Total amounts are from the Recreation and Fish and Wildlife Enhancment Fund.	and Wa \$200,0). Users - the Re	tercraft Revol 00 directly fi Tax Fund, and	from the Harbors lving Fund, rom the Highway \$53,055,000 from Fish and Wildlife

Allocated operation, maintenance, and replacement costs of multipurpose facilities are budgeted by the Department of Water Resources and have been financed by annual appropriations from the General Fund. Capital costs (other than land acquisition costs) and operation, maintenance, and replacement costs of recreation develop-

ments are budgeted by the Department of Parks and Recreation — except that the costs of boating facilities are budgeted by the Department of Navigation and Ocean Development. Costs of enhancement developments are budgeted by the Department of Fish and Game.

b) Joint capital costs allocated to recreation and enhancement are based on the Department's derivation, for each multipurpose facility of the percentages of the total joint costs that are attributable to each included purpose. These derivations are based on the application of conventional cost allocation methods which weight the estimated costs to be incurred and benefits to be realized during a 50-year period of analysis. Allocated

costs reflect the application of these percentages to the actual capital costs incurred for the facility as accounted by the Department.

Costs allocated to recreation and enhancement generally are first reported in the year following the year construction of a facility is complete. However, these allocated costs may be subsequently changed

due to either the adjustment of accounted capital costs or the revision of allocation percentages.

The allocation percentages of a facility may be revised if it can be formally demonstrated that such revision is warranted due to substantial changes in the supporting factors to the previous derivation. Such demonstration could include the finding that (1) funds are not forthcoming for financing the costs of planned recreation developments, with resultant decreases in projected

recreation benefits and costs, or (2) a change in cost allocation method would produce more equitable results.

The tentative schedule shown below indicates the times when allocated costs of each State Water Project facility will be first reported and when the factors which support the derivation of allocation percentages will be periodically reviewed for substantial changes. No new or revised allocation percentages are reported herein.

TENTATIVE SCHEDULE FOR REPORTING AND REVIEW OF COST ALLOCATIONS

Project Facility	Year Allocation to be Initially				to	be R	ting levie	wed				
	Reported	77	78	79	80	81	82	83	84	85	86	87 ^{(α}
Frenchman Lake	1965		x					x				
Antelope Lake	1966		x					x				
Lake Davis	1968		x					·x				
Abbey Bridge Reservoir	(b											
Dixie Refuge Reservoir	(b											
Oroville Division (d	1971	x					x					
Delta Facilities	1982 ^{(c}									x		
North Bay Aqueduct	1980									x		
South Bay Aqueduct												
(Lake Del Valle)	1973	•	x					x				
California Aqueduct,												
Project Conservation												
Facilities:(d	1970											
Bethany Reservoir		. X					x					x
San Luis Reservoir		x					x					x
O'Neill Forebay		x					x					x
Los Banos Reservoir		x					x					x
Aqueduct Developments	3	x					x					x
California Aqueduct,												
Project Transportation	n .											
Facilities:	1977											
Pyramid Lake							x					x
Castaic Lake							x					x
Silverwood Lake	±						x					x
Lake Perris							\mathbf{x}					x
Aqueduct Developments	5						x					x

a) Reviews would continue in the pattern indicated.

b) Delayed indefinitely.

c) Construction schedule tentative and subject to revision.

d) Will include an evaluation of an allocation of conservation facility costs to recreation and enhancement in Sacramento-San Joaquin Delta.

c) Specific costs of acquiring land for recreation developments are incurred by the Department under the authority of California Water Code Section 346. The Department purchases recreation lands concurrently with lands needed for multipurpose

facilities in order to decrease the total land costs of the Project and to acquire property in an orderly manner. Recreation lands acquired for each project facility through December 31, 1975, are summarized below.

SUMMARY OF RECREATION LAND ACQUISITIONS (a (in acres)

(metric conversion: acres x = 0.40469 = hectares)

Project Facility	Acquired (b	To be Acquired	Federal Lands(c	Total
Frenchman Lake	719	0	0	719
Antelope Lake	1,342	0	0	1,342
Lake Davis	733	0	0	733
Oroville Division	2,576	• • • 1	212	2,789
Lake Del Valle	1,206	0	0	1,206
San Luis Reservoir and O'Neill Forebay	2,518	0	0	2,518
California Aqueduct (excluding reservoirs)	1,550	(d	. 0	1,550
Castaic Lake	1,915	0	577	2,492
Silverwood Lake	304(2 0 .	2,919	3,223
Lake Perris	4,363	123	0	4,486

- a) Includes recreation lands for only those project facilities with an established recreation land use and acquisition plan.
- b) Costs of acquiring these lands are shown in Table 1.
- c) These lands are presently being leased from the Federal Government at a nominal cost to the State.
- d) Additional land needs are to be identified by future studies.
- e) Lands acquired reduced to usable acreage.

The Department reports the annual expenditure of project funds for acquiring all recreation land in the year following the expenditure. The costs of such lands generally are established when acquired and are not affected by allocation percentages for the associated multipurpose project facility. However, the reported costs of certain lands may be subsequently revised due to receipt of certain revenues (such as federal grants and miscellaneous income from right-of-way sales) or due to modification of the recreation land use plan.

The amounts to be reported in future years will include credits for any reduction in previously reported costs, together with appropriate interest income thereon. If recreation land is sold or if grants are received,

the amount of the receipt will be reported as a negative cost of the facility the year received. If recreation land is reclassified as multipurpose project land, the original purchase price, together with appropriate interest income thereon, will be reported as a negative expenditure for specific land costs in the year the modification occurs, and an appropriate amount will be added to the joint capital costs allocated to recreation and enhancement for the associated facility.

The costs of acquiring recreation land include the salaries of department personnel who are engaged in recreation land acquisition activities, together with indirect costs that are distributed on the basis of direct salaries.

d) Interest accruals are calculated as shown in Table 2. Interest charges are accrued only on the portion of annual disbursements financed by the California Water Resources Development Bond Fund (proceeds from the sale of Burns -Porter Bonds) and cease when such disbursements, together with cumulative interest accruals thereon, have been reimbursed. Calculations are based on the weighted average interest costs of Burns-Porter Bonds sold to date (4.374 percent for the \$1,550,000,000 in bonds outstanding as of December 31, 1975). This rate differs from the "project interest rate" under the Project's water supply contracts in that interest costs on revenue bond sales are not included.

As of December 31, 1975, a total of \$50,000,000 had been reimbursed to the Department under the continuing annual \$5,000,000 appropriation (thru fiscal year 1975-76) of state tideland oil and gas revenues, authorized by California Statutes of 1966, First Extraordinary Session, Chapter 27. With no allowance for future interest, reimbursement of the increased amount of costs reported herein would cover annual appropriations in the full amounts for 1976-77, 1977-78, and 1978-79, together with \$754,023 of the appropriation for 1979-80.

The amounts reported to date do not yet include an allocation to recreation and fish and wildlife enhancement in the Sacramento-San Joaquin Delta. (The tentative schedule on page 7 shows 1982 as the year in which such an allocation will be initially reported.)

- e) The Department requests that this total increased amount of reported costs be approved by the Legislature.
- f) Costs previously reported are as shown in Table 1 (pages 8 and 9) of Appendix D to Bulletin 132-75. Such costs were approved by California

Statutes of 1975, Chapter 720, and were based on the Department's accounting records as of December 31, 1974. The average interest cost on Burns-Porter Bond sales was then 4.374 percent.

g) Reasons for cost increase are outlined below:

- o Additional disbursements during 1975 for recreation lands and for joint capital costs allocated to recreation and enhancement under allocations previously reported (includes an additional \$18,000 in open-space land grants received in 1975 for land at Castaic Lake)...\$ 285,000
- o Additional accrued interest on recreation costs not yet reimbursed by the continuing \$5,000,000 annual appropriation due to an additional year of accrual (1975)..\$ 615,000
- o Adjustment in costs of Del Valle Dam and Lake because of a reallocation of the costs for the South Bay Control System Model....\$ -32,000
- o Adjustment in costs to
 reflect the redesignation
 of land use at:
 San Luis Dam & Reservoir
 & O'Neill
 Forebay...\$ 105,000
 California
 Aqueduct...\$ 377,000
 Castaic Dam
 & Lake....\$ 11,000
 Cedar Springs
 Dam and
 Silverwood
 Lake....\$-228,000
 Subtotal.....\$ 265,000

TOTAL INCREASE.....\$1,133,000

(in dollars

-	-			JOINT CAPIT		OCATED TO RECR	EATION AND E	FRANCEMENT		
YEAR		ITEM	Frenchman Dam and Lake	Antelope Dam and Lake	Grizzly Valley Dam and Lake Davis	California Aqueduct Delta to Dos Amigos P. P.	Oroville Division	Dei Valle Dam and Lake Del Valle	Total	
1952-71	a.	Disbursements 1. Calif. Water Resources Development Bond Fund 2. All other funds	101,746 2,431,029	1,034,768 3,938,600	3,836,100 502,998	6,682,577 2,136,222	5,854,704 3,295,418	10,506,034 2,177,815	28,015,929 14,482,082	
	ь.	Reimbursement 1967 thru 1971 applied to: 1. Calif. Water Resources Development Bond Fund 2. All other funds	103,519 2,431,029	1,132,637 3,938,600	4,236,213 502,998	7,559,128 2,136,222	2,117,759		15,149,256 9,008,849	
	c.	Interest accrued to end of 1971	1,803	98,299	400,289	880,694	1,611,057	2,491,876	5,484,018	
1972	d.	Beginning-of-year balance to be reimbursed: 1. Calif. Water Resources Development Bond Fund 2. All other funds	· 30	430	176	4,143	5,348,002 3,295,418	12,997,910 2,177,815	18,350,691 5,473,233	
	e.	Disbursements during year: 1. Calif. Water Resources Development Bond Fund 2. All other funds	1,235 1,588	1,605 2,071	1,662 2,595	23,296 12,544	4,649 10,668	40,249 6,470	72,696 35,936	
	f.	Reimbursements during year applied to: 1. Calif. Water Resources Development Bond Fund 2. All other funds	1,265 1,588	2,035 2,071	1,838 2,595	27,439 12,544	5,352,651 1,753,269	i ve	5,385,228 1,772,067	
* 4	8.	End-of-year balance, without interest for: 1. Calif. Water Resources Development Bond Fund 2. All other funds		, i e ar			1,552,817	13,038,159 2,184,285	13,038,159 3,737,102	
1072		Interest accrual on average balance of d(1) & g(1)	1	9	4	91	116,961	569,409	686,475	
1973	1.	Calif. Water Resources Development Bond Fund All other funds	1	9		91	116,961 1,552,817	13,607,568 2,184,285	13,724,634 3,737,102	
		Disbursements during year: 1. Calif. Water Resources Development Bond Fund 2. All other funds	935	1,342	24,084	-324 17,704	-37 23,555	9,197	-361 76,817	
		Reimbursements during year applied to: 1. Calif. Water Resources Development Bond Fund 2. All other funds	1 935	9 1,342	24,084	-233 17,704	116,924 1,576,372	2,531,686	2,648,391 1,620,437	
		End-of-year balance, without interest for: 1. Calif. Water Resources Development Bond Fund 2. All other funds						11,075,882 2,193,482	11,075,882 2,193,482	
		Interest accrual on average balance of i(1) 5 1(1)			 	2	2,558	539,827	542,387	
1974	. n.	Beginning-of-year balance to be reimbursed: 1. Calif. Water Resources Development Bond Fund 2. All other funds				2	2,558	11,615,709 2,193,482	11,618,269 2,193,482	
	0.	Disbursements during year: 1. Calif. Water Resources Development Bond Fund 2. All other funds	1,194	1,809	45,560	-505 26,671	-42 26,844	115,302	-547 217,380	
	p.	Reimbursements during year applied to: 1. Calif. Water Resources Development Bond Fund 2. All other funds	1,194	1,809	45,560	-503 26,671	2,516 26,844	4,877,944	4,879,957 102,078	
	q.	End-of-year balance, without interest for: 1. Calif. Water Resources Development Bond Fund 2. All other funds					1 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6,737,765 2,308,784	6,737,765 2,308,784	
	r.	Interest accrual on average balance of n(1) & Q(1)			a, b , a, c ,		56	401,390	401,446	
1975	6.	 Peginning-of-year balance to be reimbursed: Calif. Water Resources Development Bond Fund All other funds 					56	7,139,155 2,308,784	7,139,211 2,308,784	
		Disbursements during year: 1. Calif. Water Resources Development Bond Fund 2. All other funds	404	592	78,478	-254 33,860	-18 30,148	7,717	+272 151,199	
		Reimbursements during year applied to: 1. Calif. Water Resources Development Bond Fund 2. All other funds	404	592	78,478	-254 33,860	38 30,148	4,857,939	4,857,723 143,482	
ıı.		End-of-year balance, without interest for: 1. Calif. Water Resources Development Bond Fund 2. All other funds						2,281,216 2,316,501	2,281,216 2,316,501	
01D = 11 =		Interest accrual on average balance of s(1) & v(1)					1	206,024	206,025	
SUMMARY: 1952 thr 1975		Beginning of 1976 balance to be reimbursed: 1. Calif. Water Resources Development Bond Fund 2. All other funds Total					1	2,487,240 2,316,501 4,803,741	2,487,241 2,316,501 4,803,742	
	y.	Disbursements, 1952 thru 1975: 1. Calif. Water Resources Development Bond Fund 2. All other funds Total	102,981 2,435,150 2,538,131	1,036,373 3,944,414 4,980,787	3,837,762 653,715 4,491,477	6,704,790 2,227,001 8,931,791	5,859,256 3,386,633 9,245,889	10,546,283 2,316,501 12,862,784	28,087,445 14,963,414 43,050,859	
	z.	Reimbursements applied thru 1975 to:	104,785	1,134,681	4,238,055	7,585,577	7,589,888	12,267,569	32,920,555	
		Calif. Water Resources Development Bond Fund All other funds Total	2,435,150 2,539,935	3,944,414 5,079,095	653,715 4,891,770	2,227,001 9,812,578	3,386,633 10,976,521	12,267,569	12,646,913 45,567,468	

@ 4.374% per annum)

						COSTS OF ACQ	UIRING LAND F	FOR RECREATION	DEVELOPMENT		
Frenchman Dam and Lake	Grizzly Valley Dam and Lake Davis	Abbey Bridge Dam and Reservoir	Oroville Division	Del Valle Dam and Lake Del Valle	San Luis Dam and Reservoir & O'Neill Forebay	California Aqueduct	Castaic Dam and Lake	Cedar Springs Dam and Silverwood Lake	Perris Dam and Lake Perris	Total	GRAND TOTAL
3,379 49,947	204,116 5,246	9 9,921	1,880,646 323,591	519,386 -19,699	300,720 199,001	1,396,657 143,918	1,814,051 -4,107	384,092 302,817	857,341 3,638,866	7,360,397 4,649,501	35,376,326 19,131,583
3,509 49,947	219,182 5,246	9 9,921			355,080 199,001					577,780 264,115	15,727,036 9,272,964
134	15,082		553,733	126,376	62,082	281,187	458,977	92,513	239,045	1,829,129	7,313,147
4	16		2,434,379 323,591	645,762 -19,699	7,722	1,677,844 143,918	2,273,028 -4,107	476,605 302,817	1,096,386 3,638,866	8,611,746 4,385,386	26,962,437 9,858,619
			-509 3,347	39 758	116,692 -42,537	-160,306 145,743	32,058 23,411	24,038 24,328	-1,300	10,712 155,050	83,408 190,986
4	16		2,433,870 326,938		124,414 -42,537		•			2,558,304 284,401	7,943,532 2,056,468
			53,240	645,801 -18,941 28,246	169	1,517,538 289,661 69,883	2,305,086 19,304	500,643 327,145 21,372	1,095,086 3,638,866 47,927	6,064,154 4,256,035 320,960	19,102,313 7,993,137 1,007,435
	· · · · · · · · · · · · · · · · · · ·		53,240	674,047 -18,941	169	1,587,421 289,661	2,405,209 19,304	522,015 327,145	1,143,013 3,638,866	6,385,114 4,256,035	20,109,748 7,993,137
			-29 1,452	2,018	19,216	-8,966 44,910	-104 17,485	12,236	130	-9,099 97,447	-9,460 174,264
			53,211 1,452	674,047 -16,923	169 19,216					727,427 3,745	3,375,818 1,624,182
			1,164	14,741		1,578,455 334,571 69,238	2,405,105 36,789 105,202	522,015 339,381 22,833	1,143,013 3,638,996 49,995	5,648,588 4,349,737 263,177	16,724,470 6,543,219 805,564
			1,164	14,741	4	1,647,693	2,510,307	544,848	1,193,008	5,911,765	17,530,034
			-87 1,204	821	. 118	334,571 17,978	36,789 -233 -2,827	339,381 28,349	3,638,996 -1,300	4,349,737 -320 44,343	6,543,219 -867 261,723
			1,077	14,741 821	4 118					15,822 2,143	4,895,779 104,221
			25	322		1,647,693 352,549	2,510,074 33,962 109,796	544,848 367,730 23,832	1,193,008 3,637,696 52,182	5,895,623 4,391,937 258,227	12,633,388 6,700,721 659,673
	·		25	322		1,719,763 352,549	2,619,870 33,962	568,680 367,730	1,245,190 3,637,696	6,153,850 4,391,937	13,293,061
			-28 -2,167	400	243	63,686	-93 64,414	7,674		-121 134,250	-393 285,449
			-3 -2,167	322 400	243					319 -1,524	4,858,042 141,958
						1,719,763 416,235	2,619,777 98,376,	568,680 375,404	1,245,190 3,637,696	6,153,410 4,527,711	8,434,626 6,844,212
	····		1	7		75,222	114,591	24,874	54,465	269,160	475,185
			1	7		1,794,985 416,235 2,211,220	2,734,368 98,376 2,832,744	593,554 375,404 968,958	1,299,655 3,637,696 4,937,351	6,422,570 4,527,711 10,950,281	8,909,811 6,844,212 15,754,023
3,379 49,947 53,326	$\frac{204,116}{5,246}$ $\frac{5,246}{209,362}$	9,92 <u>1</u> 9,930	$\frac{1,879,993}{327,427}$ $\frac{327,427}{2,207,420}$	519,425 -15,702 503,723	417,412 176,041 593,453	1,227,385 416,235 1,643,620	1,845,679 98,376 1,944,055	408,130 375,404 783,534	856,041 3,637,696 4,493,737	7,361,569 5,080,591 12,442,160	35,449,014 20,044,005 55,493,019
3,513 49,947 53,460	219,198 5,246 224,444	9 9,921 9,930	2,488,155 327,427 2,815,582	689,110 -15,702 673,408	479,667 176,041 655,708					3,879,652 552,880 4,432,532	36,800,207 13,199,793 50,000,000
134	15,082		608,163	169,692	62,255	567,600	888,689	185,424	443,614	2,940,653	10,261,004

Summary of Allocation Percentages

The Department annually determines water contractor charges for the State Water Project based on allocations of costs among purposes of those facilities which are jointly used for more than one purpose. These allocations utilize the percentages previously reported to and approved by the Legislature, as well as preliminary estimates for facilities which have not been reported. These percentages are summarized in the table below.

The facilities which remain to be reported are two reservoirs in the Upper Feather River area, the Delta Facilities, and the transportation features of the California Aqueduct. Upon completion of project formulation for the Delta Facilities, costs may be allocated to purposes other than those shown in the table. The allocation for the Delta Facilities is scheduled to be reported in 1982 as shown in the Table on page 7.

SUMMARY OF COST ALLOCATION PERCENTAGES

(in percent of joint costs of the respective facilities)

$(A,B) = \{ \{ (A,B) \mid A \in \mathcal{A} \mid A \in \mathcal{A} : A \in \mathcal{A} \} \mid A \in \mathcal{A} \} $	Reim	bursable Pu	rposes	Nonrei	Nonreimbursable Purposes (a			
Facilities of the State Water Project	Water Supply	Power Generation	Total	Flood Control	Recreation and Fish and Wildlife Enhancement	Total	Total	
<u>Capital</u>	Costs o	f Features	Jointly	Used				
Project Conservation Facilities				-				
Frenchman Dam and Lake (b) Antelope Dam and Lake (b) Grizzly Valley Dam and Lake Davis (b) Abbey Bridge Dam and reservoir (c) Dixie Refuge Dam and reservoir (c) Oroville Dam and reservoir (d) California Aqueduct (b) Delta Facilities (c) Project Transportation Facilities	21.5 0 5.1 0 61.3 96.5 86.0	0 0 0 0 0 35.8 0	21.5 0 5.1 0 97.1 96.5 86.0	0 0 0 0 0 0	78.5 100.0 94.9 100.0 100.0 2.9 3.5 14.0	78.5 100.0 94.9 100.0 100.0 2.9 3.5 14.0	100.0 100.0 100.0 100.0 100.0 100.0 100.0	
California Aqueduct, excluding Coastal Branch Cle South Bay Aqueduct:	97.0	0	97.0	0	3.0	3.0	100.0	
Del Valle Dam and reservoir $^{(b)}$ North Bay Aqueduct $^{(c)}$	25.2 100.0	0 0	25.2 100.0	26.8 0	48.0 0	74.8 0	100.0 100.0	

a) Additional purposes may be identified after project formulation in the Delta is completed.

b) Final percentages.

c) Illustrative percentages only, assumed for current project financial and repayment analyses.

d) Percentages are applicable to Capital Costs of Features Jointly Used minus Federal Flood Control Payments.

e) A final allocation of facilities from Delta to Dos Amigos Pumping Plant has been made. 3.5 percent of these costs are allocated to recreation and fish and wildlife enhancement and are reported for reimbursement under AB 12. However, until the remainder of the aqueduct is finally reported the percentage for billing purposes is as shown.

Note: Percentages shown are those applicable to the costs of the facility as accounted for by the State, or, in the case of federal-state joint-use facilities (San Luis and Delta Facilities), only the State's share of the total cost.

COMMENTS

BY
THE DEPARTMENT OF NAVIGATION AND OCEAN DEVELOPMENT,
THE DEPARTMENT OF PARKS AND RECREATION,
AND THE DEPARTMENT OF FISH AND GAME

Memorandum

То

Honorable Ronald B. Robie Director Department of Water Resources 11th Floor, Resources Building Date : March 24, 1976

Subject: Cost Allocations to

Recreation and Fish and Wildlife Enhancement, State Water Project

From: Department of Navigation and Ocean Development

In accordance with the California Water Code, Section 11912, as amended by California Statute of 1970, Chapter 1428, you requested the Department of Navigation and Ocean Development to comment on the report which presents State Water Project cost allocations to Recreation and Fish and Wildlife Enhancement.

The draft of Bulletin 132-76, Appendix D, was reviewed by this Department and we have no comments.

MARTY MERCADO Director

Memorandum

To : Honorable Ronald B. Robie, Director
Department of Water Resources

Date : April 1, 1976

Subject: Cost Allocations to

Recreation and Wildlife Enhancement, State Water

Project

From : Department of Parks and Recreation

The California Department of Parks and Recreation has reviewed your draft copy of "Appendix D, Cost of Recreation and Fish and Wildlife Enhancement", to Bulletin 132-76, "The California State Water Project in 1976".

We concur in your findings and have no further comments on the report at this time. We look forward to working with you in the following year.

Herbert Rhodes

Medes

Director

Memorandum

To : Ronald B. Robie, Director
Department of Water Resources

Date: April 13, 1976

From: Department of Fish and Game

Subject: Department of Water Resources' 1976 Cost Allocations to Recreation and Fish and Wildlife Enhancement, State Water Project

These are our comments on State Water Project joint costs allocated to recreation and fish and wildlife enhancement, as reported on in the review draft of Appendix D to Bulletin No. 132-76, transmitted with your memorandum of March 19, 1976.

Appendix D presents new costs allocated to recreation, fish and wildlife enhancement of \$1,133,276. Half of this amount is due to interest on previous expenditures; \$285,000 for additional enhancement expenditures; and \$265,000 for adjustments.

The Department of Fish and Game supports that portion of this allocation which is within our purview to evaluate.

CKoo

Director

cc: Lawrence E. Swenson, DWR